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Ministry of Health

REPORT ON
DAY CARE SURGERY
1986 / 1987

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PROVINCE OF BRITISH COLUMBIA

MINISTRY OF HEALTH

REPORT ON

DAY CARE SURGERY

1986 / 1987

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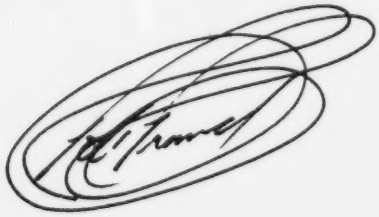
FOREWORD

The purpose of this report is to present in a statistical form, details of the day care surgery program in British Columbia. The data presented has been derived from the statistical information received from the national service bureaus performing medical record abstracting for the hospitals in British Columbia.

Although the formats and content of the tables are similar to those of past reports, the number and order of the tables have changed. Therefore, care should be taken when comparing this report to those of previous years.

This report is expanded from prior years to include charts, graphs and tables which illustrate day care surgery utilization over time and highlight emerging trends. Throughout the report we have maintained an objective overview of the data and have not made policy or procedural recommendations.



R. N. Brand
Director, Information Resources
Institutional Management Resources

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INTRODUCTION

The purpose of this report is to analyse the 1986/87 experience of the day care surgery program in British Columbia, show the types of procedures being performed, document the growth of day care surgery over the past few years and highlight emerging trends. For comparative purposes, this report should be reviewed with the report on the 1985/86 experience. Reports prior to 1979/80 employed the ICD - 8th Revision. Thus, when comparisons are made with the 8th Revision, some caution should be used as a result of the change in the code structure and classification.

At the time the decision was made for provision of day care surgical services under the British Columbia Hospital Insurance Act, there was considerable discussion as to the type of case that would be suitable for coverage and the method of defining acceptable cases and procedures. Serious consideration was originally given to the development of a list of procedures and diagnoses which would be eligible. However, it was felt that such a list would be subject to constant amendment, revision and additions, and hospital clerical personnel would have continuing difficulties interpreting admitting diagnoses and types of procedures against the background of a constantly changing eligible list.

It was decided therefore that a broad general definition of what was intended for coverage was a superior method of dealing with the problem.

The definition is based primarily on the assumption that day care surgical services are a compact form of inpatient care, requiring the full services of an operating room suite and as such, deserve the same quality control considerations provided to inpatients. The attending physicians in the hospitals are expected to provide a complete medical record for a day care admission, and these records are subject to the usual review taken by the hospital's Medical Utilization Committee to establish quality control, and assist in assessing proper utilization of the program.

Day care surgical services can be divided into four main groups as follows:

- the primary group of cases are those elective or non-elective diagnostic and/or treatment procedures requiring the use of hospital facilities and a general anaesthetic;

- a second group of cases are those procedures which would normally be carried out under general anaesthesia, but where the attending physician has elected to use local or regional anaesthesia. It is recognized that many physicians are highly proficient in operating under these conditions, and such procedures as repair of hernia, breast biopsy, closed reduction of fractures, etc., while normally performed under a general anaesthetic, are acceptable procedures when performed under local or regional anaesthesia;

- a third group of acceptable cases are endoscopic procedures carried out under either local or general anaesthesia, or sedation. It is felt that hospital facilities are required for cystoscopy, bronchoscopy, esophagoscopy, gastroscopy, etc. Sigmoidoscopy does not normally require complete hospital facilities and is usually performed as a simple office or hospital outpatient procedure, but there may be exceptions;

- a fourth group of acceptable procedures are those related to certain plastic, opthalmological and other surgical procedures which may be carried out under general or local anaesthesia. While it is not felt that such simple procedures as excision of cysts, removal of warts, toenails, etc., should be removed from their present "minor surgery" classification, it is recognized that certain plastic surgical, ophthalmological, and other procedures on the face do require a degree of care and attention which may call for full operating room, recovery room, nursing care and other hospital services.

SECTION I

OVERVIEW OF DAY CARE SURGERY IN BRITISH COLUMBIA

Day care surgical services have been provided as a benefit under the British Columbia Hospital Insurance Act since February, 1968. During that initial year of operation, 13,450 procedures were carried out under the program. As indicated below, the number of reported procedures carried out annually has increased significantly over the past nine years.

Year	Number of Procedures
1978	82,369
1979/80	90,120
1980/81	97,085
1981/82	105,944
1982/83	116,958
1983/84	122,244
1984/85	129,636
1985/86	145,409
1986/87	161,505

Figure 1 shows the incidence of day care surgical procedures per 1,000 population.

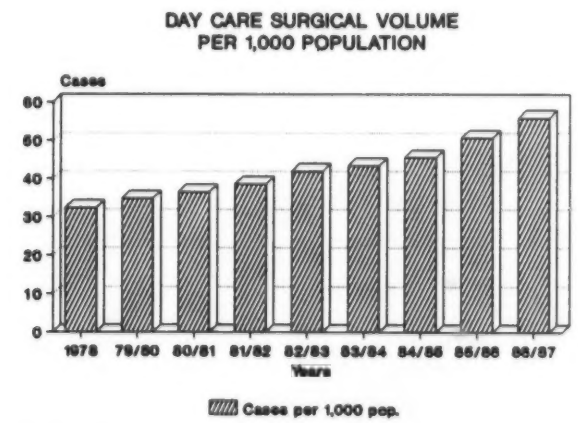

FIGURE 1

A further analysis of the incidence of day care procedures by age group for the years 1979/80, 1981/82, 1983/84, 1985/86 and 1986/87 indicates that the bulk of this increase has occurred in the 45-69 and the over 70 age groups. This is illustrated in Figure 2. The incidence per thousand population for the over 70 age group has grown from 26.49 in 1979/80 to 87.52 in 1986/87. The incidence for the 45-69 age group has grown from 36.49 to 73.69 over the same period. This increase is generally distributed consistently among the operation groupings, discussed in Section II, that have exhibited growth in day care surgical volume.

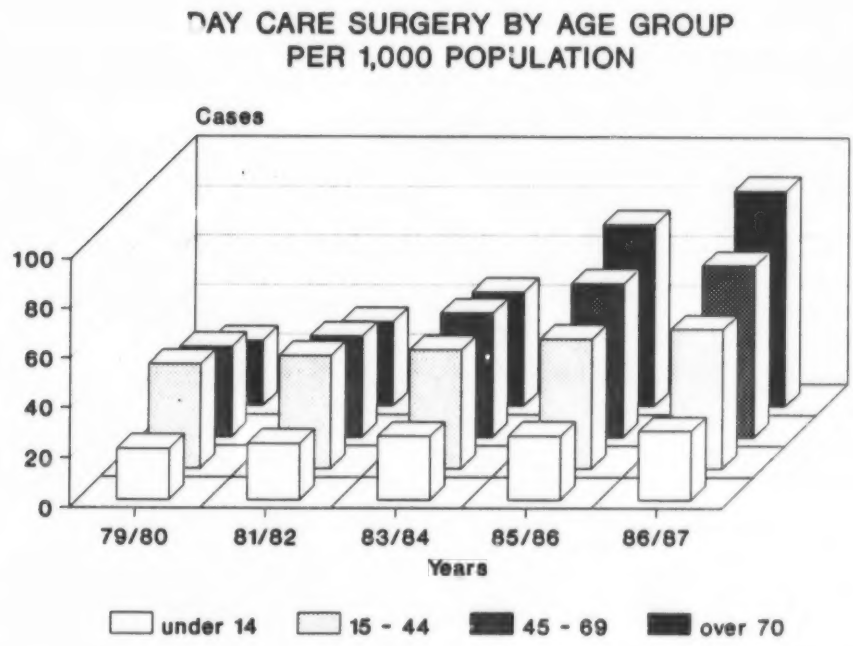

FIGURE 2

The total day care surgical case load rose from 145,409 in 1985/86 to 161,505 in 1986/87, an increase of 11.1%. During the same period, the total acute care hospital inpatient surgical load (primary procedures only) was 317,130 cases, up from 314,051, an increase of 1.0%. In total then, the 1986/87 day care load represented 33.7% of the total surgical load. The relationship between the total inpatient and day care surgical load over time is illustrated in Figure 3.

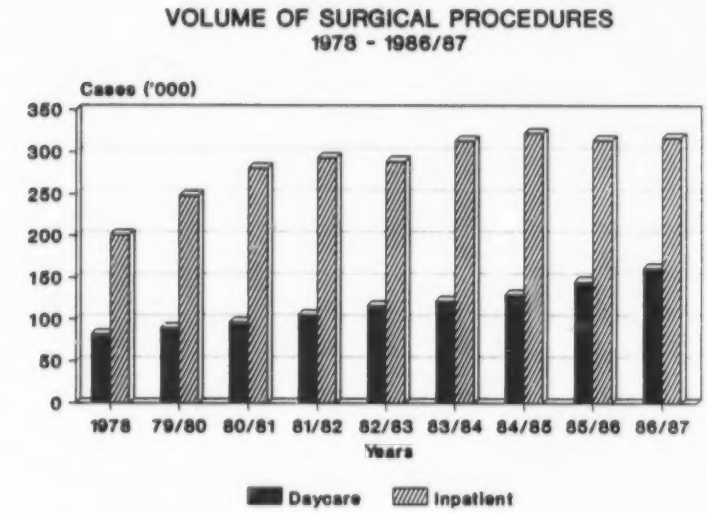

FIGURE 3

SECTION II

DAY CARE SURGICAL VOLUMES FOR SPECIFIC HOSPITALS

An analysis of the 1986/87 hospital specific workload by operation group is shown in Table 1. The operation groupings are based on the Canadian Classification of Diagnostic, Therapeutic, and Surgical Procedures used in conjunction with the ICD-9 (See Appendix A for definitions of the groupings). While these groupings indicate the general areas of surgery, they do not indicate the specific procedures performed. Figures 4A and 4B compare the distribution among these operation groupings for fiscal years 1979/80, 1981/82, 1983/84, 1985/86 and 1986/87. Although, as expected, most groupings showed an increase, day care volumes for a number of groupings increased consistently and substantially over the seven year period, including:

Operation Group	Code
Certain Diagnostic and Therapeutic Procedures	01-13
Operations on the Nervous System	14-18
Operations on the Eyes	21-29
Operations on the Respiratory System	42-46
Operations on the Digestive System	54-66
Operations on the Urinary Tract	67-71
Operations on the Male Genital Organs	72-76
Operations on the Musculoskeletal System	88-96

Operation group 47-51, operations on the cardiovascular system, experienced a decline of approximately 30% from 1983/84 and 1985/86 to 1986/87. This is almost entirely the result of a reduction in the number of hemodialysis cases (code 51.95) being incorrectly reported as day care surgery.

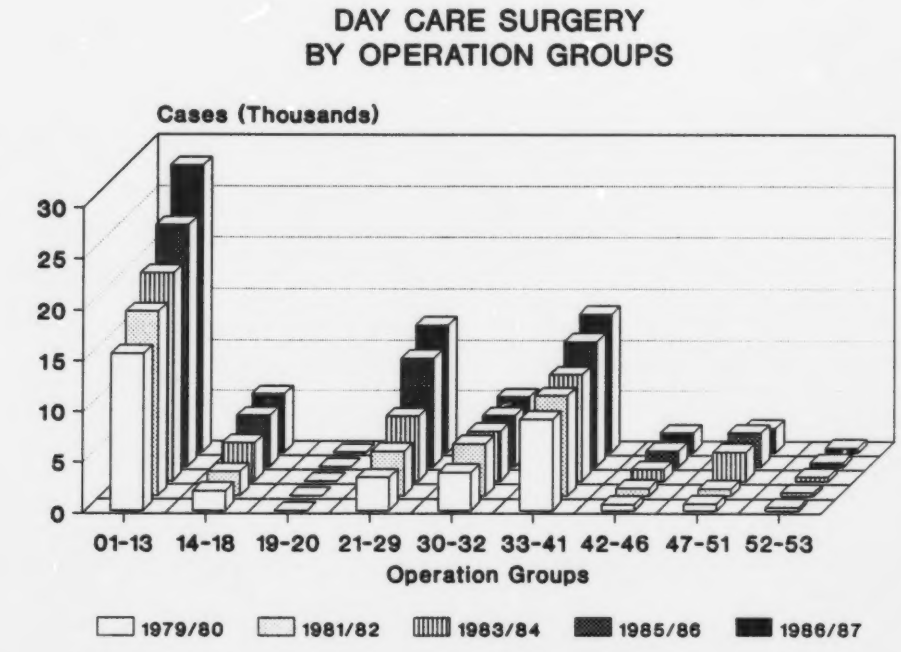

FIGURE 4A

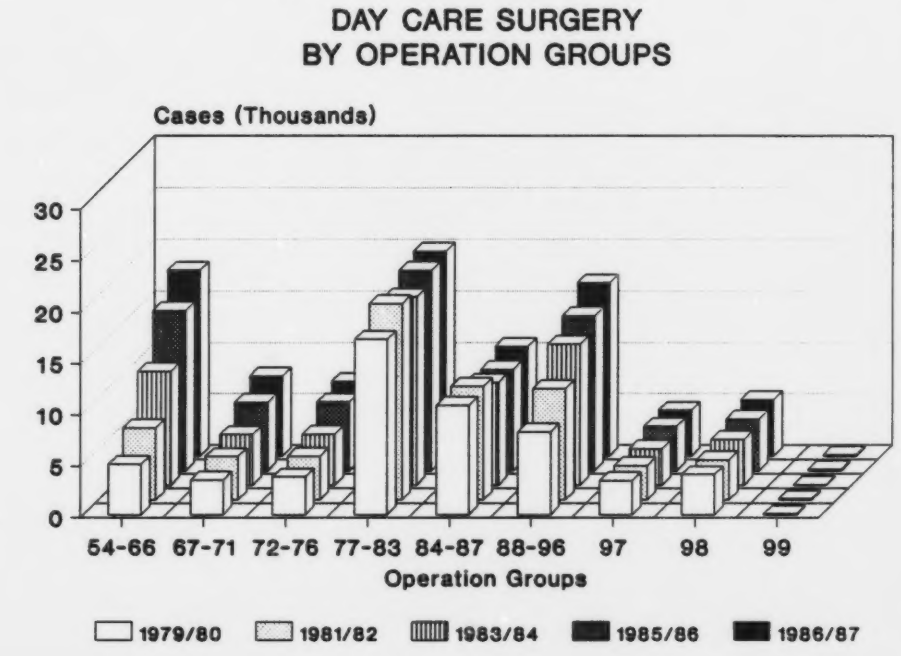

FIGURE 4B

TABLE 1

DAY CARE SURGICAL CASES
BY HOSPITAL AND OPERATION GROUP
1986/87

HOSP CODE	TOTAL	OPERATION GROUPS 01-13	14-18	19-20	21-29	30-32	33-41	42-46	47-51	52-53	54-66	67-71	72-76	77-83	84-87	88-96	97	98	99
101	18,175	992	350		2,857	9	968	300	567	7	1,482	2,199	586	1,951	4,794	860	70	139	44
102	6,208	1,393	111		1,037	22	105	44	108	25	1,705	371	108	496		351	206	100	26
103	2,534	292	26		513	53	230	20	83	12	293	229	106	210		135	216	116	
105	5,915	1,294	6	1	471	858	1,792	32	82	16	476	67	384	10		272	1	153	
106	2,255	258	24		259	66	190	25	4	15	285	198	77	528	1	143	87	91	4
107	447	148	1			1	6	73	15	42		10	16	6		4	119	6	
109	5,250	1,105	160		23	75	64	278	459	16	887	267	374	676	287	222	145	206	6
110	4,072	286	71	1	1,434	302	758	89	20	8	63	16	3	119		424	81	395	2
111	387	32	6		17	11	47	1	1	2	25	30	7	120	4	44	11	29	
112	7,375	855	180	2	349	243	280	[illegible]	21	26	1,073	570	251	1,166	503	1,410	234	137	7
113	417	97	15				6		4		64	8	50	83	33	36	11	10	
115	1,663	542	23		83	21	19	5	13	4	235	37	36	331	3	180	89	40	2
116	5,424	876	159		263	294	285	47	42	9	341	73	331	995	223	800	217	469	
121	3,295	405	48		157	72	39	53	7	10	134	180	306	513	322	523	146	378	2
123	2,043	379	6		121	2	33	13	59	6	683	114	77	55		246	217	31	1
125	5,503	916	611		25	8	188	19	39	5	1,324	298	42	764	986	230	23	17	8
128	93	3	2				15				4		1	45		14	2	6	1
130	4,350	1,067	73	2	252	78	76	26	12	13	641	156	161	471	422	399	196	305	
131	2,591	503	994	2	196	2	38		5	7	142	35	124	261	70	106	79	26	1
134	1,007	184	15		38	9	62	22	1	2	138	56	89	202		67	62	60	
136	2,993	274	250		72	221	350	11	8		103	239	289	328		397	77	373	1
201	11,191	2,392	310	1	1,498	68	1,111	209	168	30	393	513	512	1,232	928	1,216	195	415	
202	8,740	2,444	92	1	576	688	1,075	40	35	24	797	220	362	927	61	864	213	321	
203	2,060	436	88	1	4	119	282	9	4	6	225	29	103	328		328	65	32	1
206	44	14	5				8				1	1	3	2		7	1	2	
217	608	122	17		44	23	68	6			65	21	45	122	20	18	15	22	
301	2,614	725	56		107	173	170	36	2	15	279	89	98	280	110	368	73	33	
302	5,504	340	185	1	432	91	138	101	6	20	1,754	354	212	893	10	644	168	149	6
303	2,777	616	60	1	65	111	247	45	12	12	499	137	208	300	124	240	61	38	1
305	108	32	3		1		4		1		1		16	33		11	3	3	
306	46	1	1							1	2	1	3	7		18	5	7	
307	37	1	1				11				1		7	5		4	2	5	

TABLE 1

DAY CARE SURGICAL CASES
BY HOSPITAL AND OPERATION GROUP
1986/87

HOSP CODE	TOTAL	OPERATION GROUPS 01-13	14-18	19-20	21-29	30-32	33-41	42-46	47-51	52-53	54-66	67-71	72-76	77-83	84-87	88-96	97	98	99
308	154	1	17				54			1	2		14	27		23	8	7	
309	110	6	14				21						18	19		26	1	5	
401	6,942	1,137	493	2	154	240	888	59	436	13	570	276	188	900	337	863	191	195	
402	111	4	7				13				3		5	43	13	14	2	6	1
403	157	8	18	1			1				7	1	24	58		31	1	7	
404	562	114	36			4	27	2		2	81	8	61	118	36	37	23	11	2
406	1,079	298	23		20	32	94	6	3	4	108		88	168	55	97	38	45	
408	9						6							1		2			
409	51	1					6				1			24	7	1	9	2	
417	14	2			1		1						8			1		1	
501	5,156	656	202	1	627	189	487	77	28	9	505	193	196	544	378	829	129	99	7
502	1,629	277	46		163	33	287	8	1	4	148	65	62	161		308	37	27	2
504	1,598	124	26		1	160	636	8			163	4	52	211	155	49		5	4
505	319	44	6				56				8	17	11	9		161	1	6	
506	932	244	35		44	21	179		2	2	9	43	80	25		113	73	60	2
508	2,197	248	180		9	139	235	31		4	271	5	104	270	103	492	56	44	6
510	22		1										20			1			
511	15												15						
601	2,634	385	87		240	153	228	24	64	7	256	94	136	373	1	426	68	91	1
602	1,000	347	28	1	10	53	117	2	1	6	64	26	49	142	22	76	22	28	6
603	4,049	1,366	98		41	177	252	13	12	20	364	208	247	611		438	94	108	
604	1,106	305	18	1	54	54	17	3	5	7	98	24	104	211	56	91	35	21	2
606	22	3					1							18					
651	852	258	23		6	1	149		3	2	124		80	71	25	42	34	32	2
654	229	109	2				14	1		1	7		25	37	7	14	6	6	
701	456	47	30	1	9	27	93	1	2	2	23	3	6	40	57	76	25	14	
702	92	1	2		4		4			1	1		22	22		27	6	2	
703	4,343	884	148	1	89	154	159	88	44	23	444	156	178	843	212	524	244	145	7
704	872	147	16		7	39	82	1		8	152	29	26	149	75	83	29	28	1
705	1,180	488	44		2	33	106	5	4	3	62	25	89	111	62	86	29	30	1
707	77	21	6				2				4		11	15		9	7	2	

TABLE 1

DAY CARE SURGICAL CASES
BY HOSPITAL AND OPERATION GROUP
1986/87

HOSP CODE	TOTAL	OPERATION GROUPS 01-13	14-18	19-20	21-29	30-32	33-41	42-46	47-51	52-53	54-66	67-71	72-76	77-83	84-87	88-96	97	98	99
708	106	3	11			1	35						2	37		15		2	
713	19				1		2						4	6		5		1	
714	85	9			3	12	10			1	2	1	14	15		7	2	9	
715	51	1				2	27		1				12	6			1	1	
716	6	1												2		3			
717	30	4			1		2						1	20				2	
752	134	33	12				25		2		5			42	2	11	1	1	
753	14		3										2	7		2			
754	107	8	1		2	2	1		2		3		9	43		11	9	16	
755	81	1	6				2		1				14	37		5	8	7	
756	1,649	455	71		17	66	221	10	2	8	247	27	45	192	36	165	54	33	
801	1,064	220	30		18	63	42	8	1	3	119	39	7	180	26	199	44	64	1
802	490	4	3				3									479		1	
803	100	6	4	1			2				3		7	38	9	17	4	8	1
804	229	9	4				43				17	3	1	85	48	4	9	6	
851	1,182	215	22		127	90	202	2	6	11	12	5	110	132	28	80	40	98	2
901	66	15	3		11	13	1			1	5		3	4		6		3	1
902	600	54	22		12	57	48	2		3	13	37	41	98	42	129	17	25	
903	608	226	19		1	9	51				43	3	49	107	13	66	5	8	8
906	12					1	1						7	2				1	
907	4												4						
909	18												6			1		11	
912	612	202	9		2	23	33	3	1	2	69	2	15	127	2	86	13	23	
917	543	119	2		5	21	36	1		1	19	33	38	117		83	16	49	3
TOTAL	161,505	28,134	5,777	22	12,575	5,489	13,667	1,927	2,399	482	18,147	7,845	7,297	19,977	10,708	16,895	4,481	5,510	173

Table 2 shows the total number of day care surgical procedures performed at each acute care hospital, together with the number of operations performed on inpatients (based on primary operations only), and relates the day care surgery to the total surgical volume of the hospital. As previously mentioned, 33.7% of all surgery was performed on a day care basis in 1986/87. However, when we look at only those hospitals where the total surgical load was greater than 10,000 cases, day care surgery accounted for 35.9% of the total load. Looking at only those hospitals where the total surgical load was less than 10,000 cases, day care surgery represented 29.9% of the total. In addition to hospital surgical volume, another factor which tended to raise the level of day care surgery performed at individual hospitals included the provision of specialized services (i.e., eye care at Vancouver General Hospital and St. Mary's Hospital, New Westminster).

TABLE 2 VOLUME OF DAY CARE AND INPATIENT SURGERY (PRIMARY PROCEDURES ONLY) PERFORMED IN ACUTE CARE HOSPITALS 1986/87

HOSPITAL CODE	HOSPITAL NAME	DAY CARE SURGICAL	INPATIENT SURGICAL	TOTAL SURGICAL	% DAY CARE
101	Vancouver General	18,175	24,779	42,954	42.3
102	St. Paul's	6,208	15,777	21,985	28.2
103	St. Vincent's	2,534	2,647	5,181	48.9
104	The Salvation Army Grace		8,841	8,841	0.0
105	Children's	5,915	5,308	11,223	52.7
106	Mount Saint Joseph	2,255	3,677	5,932	38.0
107	A. Maxwell Evans Clinic	447	3,198	3,645	12.3
109	Royal Columbian	5,250	15,002	20,252	25.9
110	Saint Mary's	4,072	6,344	10,416	39.1
111	Powell River General	387	1,779	2,166	17.9
112	Lions Gate	7,375	11,167	18,542	39.8
113	St. Mary's	417	1,829	2,246	18.6
115	Langley Memorial	1,663	5,751	7,414	22.4
116	Surrey Memorial	5,424	12,505	17,929	30.3
121	Richmond General	3,295	6,253	9,548	34.5
123	UBC Health Sciences Centre	2,043	7,986	10,029	20.4
125	Shaughnessy	5,503	11,070	16,573	33.2
128	Squamish General	93	499	592	15.7
130	Burnaby Hospital	4,350	9,996	14,346	30.3
131	Peace Arch Hospital	2,591	3,412	6,003	43.2
134	Delta Hospital	1,007	1,936	2,943	34.2
136	Eagle Ridge	2,993	1,720	4,713	63.5
201	Royal Jubilee	11,191	14,038	25,229	44.4
202	Victoria General	8,740	17,733	26,473	33.0
203	Cowichan District	2,060	3,504	5,564	37.0
206	Lady Minto Gulf Islands	44	442	486	9.1
217	Saanich Peninsula	608	2,559	3,167	19.2
301	Vernon Jubilee	2,614	4,005	6,619	39.5
302	Kelowna General	5,504	10,865	16,369	33.6
303	Penticton Regional	2,777	5,896	8,673	32.0
305	Princeton General	108	427	535	20.2
306	Enderby and District Memorial	46	149	195	23.6
307	Armstrong and Spallumcheen	37	108	145	25.5
308	Summerland General	154	595	749	20.6
309	South Okanagan General	110	649	759	14.5
401	Royal Inland	6,942	10,513	17,455	39.8
402	Queen Victoria	111	800	911	12.2
403	Nicola Valley General	157	695	852	18.4
404	Shuswap Lake General	562	1,710	2,272	24.7
405	St. Bartholomew's		58	58	0.0
406	Cariboo Memorial	1,079	2,248	3,327	32.4
408	Ashcroft and District General	9	200	209	4.3
409	Golden and District	51	480	531	9.6
417	Lillooet District	14	387	401	3.5
419	Dr. Helmcken Memorial		283	283	0.0
501	Nanaimo Regional General	5,156	7,628	12,784	40.3
502	St. Joseph's General	1,629	3,805	5,434	30.0

TABLE 2 VOLUME OF DAY CARE AND INPATIENT SURGERY (PRIMARY PROCEDURES ONLY) PERFORMED IN ACUTE CARE HOSPITALS 1986/87

HOSPITAL CODE	NAME	DAY CARE SURGICAL	INPATIENT SURGICAL	TOTAL SURGICAL	% DAY CARE
504	Cumberland Health Care Facility*	1,598		1,598	100.0
505	Chemainus General	319		319	100.0
506	Ladysmith and District General	932	601	1,533	60.8
507	St. George's		276	276	0.0
508	Campbell River and District General	2,197	3,256	5,453	40.3
510	Port Hardy	22	99	121	18.2
511	Port McNeill and District	15	190	205	7.3
601	Chilliwack General	2,634	4,589	7,223	36.5
602	Mission Memorial	1,000	2,689	3,689	27.1
603	Matsqui-Sumas-Abbotsford General	4,049	6,508	10,557	38.4
604	Maple Ridge	1,106	3,269	4,375	25.3
606	Fraser Canyon	22	504	526	4.2
651	Kootenay Lake District	852	2,470	3,322	25.6
652	Slocan Community		24	24	0.0
653	Victorian		27	27	0.0
654	Creston Valley	229	1,196	1,425	16.1
655	Arrow Lakes		431	431	0.0
701	Fort St. John General	456	2,101	2,557	17.8
702	St. John	92	573	665	13.8
703	Prince George Regional	4,343	9,856	14,199	30.6
704	Dawson Creek and District	872	2,943	3,815	22.9
705	G. R. Baker Memorial	1,180	1,781	2,961	39.9
707	Burns Lake and District	77	374	451	17.1
708	100 Mile District Regional	106	508	614	17.3
713	McBride and District	19	187	206	9.2
714	Fort Nelson General	85	455	540	15.7
715	Mackenzie and District	51	182	233	21.9
716	Chetwynd General	6	648	654	0.9
717	Stuart Lake	30	236	266	11.3
752	Kimberley and District	134	568	702	19.1
753	Fernie District	14	1,029	1,043	1.3
754	Sparwood General	107	570	677	15.8
755	Windermere District	81	307	388	20.9
756	Cranbrook and District	1,649	2,679	4,328	38.1
801	Trail Regional	1,064	3,488	4,552	23.4
802	The Mater Misericordiae	490	61	551	88.9
803	Boundary	100	657	757	13.2
804	Castlegar and District	229	760	989	23.2
851	West Coast General	1,182	1,234	2,416	48.9
854	Tofino General		99	99	0.0
858	C. F. Station Hospital, Holberg		3	3	0.0
859	Port Alice		32	32	0.0
861	Tahsis		29	29	0.0
901	Wrinch Memorial	66	495	561	11.8
902	Prince Rupert Regional	600	2,130	2,730	22.0
903	Bulkley Valley District	608	1,450	2,058	29.5
904	R. W. Large Memorial		146	146	0.0

TABLE 2 VOLUME OF DAY CARE AND INPATIENT SURGERY (PRIMARY PROCEDURES ONLY)
PERFORMED IN ACUTE CARE HOSPITALS
1986/87

HOSPITAL CODE	NAME	DAY CARE SURGICAL	INPATIENT SURGICAL	TOTAL SURGICAL	% DAY CARE
906	Bella Coola General	12	137	149	8.1
907	Queen Charlotte Islands General	4	128	132	3.0
909	Houston Health & Human Resources Centre	18		18	100.0
910	Stewart General		37	37	0.0
912	Mills Memorial	612	2,420	3,032	20.2
916	Cassiar		28	28	0.0
917	Kitimat General	543	1,342	1,885	28.8
918	C. F. Station Hospital, Masset		75	75	0.0
	TOTAL	161,505	317,130	478,635	33.7

* Diagnostic and Treatment Centre

SECTION III

DAY CARE SURGICAL VOLUMES FOR SPECIFIC PROCEDURES

In order to analyse the work volume by specific procedure, it is necessary to use the full four-digit operation code. This, however, has the disadvantage of being an extremely lengthy breakdown. From an analysis of this data, it was possible to prepare a list of the most common procedures carried out in all hospitals in the Province during 1986/87 under the day care program. These are shown in Table 3. In order to minimize the number of codes and give a better understanding of the work volume, a few closely related codes were grouped for convenience, but for the most part, the figures in Table 3 do relate to specific procedures. As Table 3 does relate to the twenty-five most common procedures for the year, specific procedures shown on the table may vary from year to year. Therefore, caution should be exercised when comparing this report to those of previous years.

In 1986/87, the total work load represented by the twenty-five most common procedures was 113,584 cases. The table then, gives a fairly good picture of the type of work being carried out on the day care program. However, it should be noted that as total day care volume has increased, so has the variety of procedures being performed on a day care basis. The proportion of the total work load represented by the twenty-five most common procedures has decreased over time. In 1977, the twenty-five most common procedures amounted to 81.3% of the total work load. In 1986/87, the twenty-five most common procedures represented 70.3% of the total day care surgical load. A further analysis of the procedures listed in Table 3 shows that the top five procedures as ranked by day care volume:

- cystoscopy and urethroscopy;
- diagnostic dilation and curettage;
- therapeutic abortion;
- removal and restoration of teeth; and
- nonoperative endoscopy of respiratory and upper gastro-intestinal tract;

have remained unchanged over time. However, these five procedures which represented 49.4% of the total day care volume in 1977, accounted for only 32.7% of the total day care volume in 1986/87.

TABLE 3

THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES
BOTH SINGLE AND GROUPED
1986/87

	ICD-9 CODE	PROCEDURE	CASES 1986/87	CASES 1985/86
1.	01.33 - 01.35, 67.85 - 67.87	cystoscopy and urethroscopy, with and without retrograde pyelogram	14,519	12,325
2.	79.00, 79.10, 79.21, 79.22, 79.23, 79.29, 79.30, 80.11, 80.12, 80.19, 81.09	diagnostic dilation and curettage	10,853	10,618
3.	86.41, 86.42, 86.49, 87.00, 87.10, 87.21, 87.29	therapeutic abortion	10,694	9,852
4.	35	removal of teeth	9,011	7,981
5.	01.02 - 01.09, 01.11 - 01.16	nonoperative endoscopy of respiratory and upper gastrointestinal tract	7,676	7,091
6.	56.81, 56.82, 57.91 - 57.95	biopsy of stomach and intestines	6,553	5,313
7.	78.21, 78.22, 78.31, 78.32, 78.39, 78.41, 78.42, 78.49, 78.53, 78.59	destruction or occlusion of fallopian tubes	5,329	5,102
8.	32.01, 32.09, 32.10	myringotomy; removal of tympanostomy tube	4,576	4,262
9.	01.22	other nonoperative colonoscopy	3,893	3,233
10.	98.11, 98.12	removal of lesion of skin and subcutaneous tissue	3,754	3,371
11.	97.11, 97.82	local excision or biopsy of lesion of breast	3,666	3,608
12.	66.83	laparoscopy	3,577	3,259
13.	75.64	vasectomy	3,423	3,045
14.	92.32	excision of semilunar cartilage of knee	3,287	2,621
15.	70.10, 70.50	urethral meatotomy, dilation of urethra	2,803	2,845
16.	28.53 - 28.55	excision or destruction of lesion of retina, by photocoagulation	2,797	2,685

TABLE 3

THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES
BOTH SINGLE AND GROUPED
1986/87

	ICD-9 CODE	PROCEDURE	CASES 1986/87	CASES 1985/86
17.	33.21 - 33.23, 33.30, 33.40, 33.51, 33.52, 33.59, 33.61, 33.62, 33.71 - 33.77, 33.79, 33.91, 33.99, 34.00, 34.10, 34.21, 34.29, 34.31, 34.32, 34.41 - 34.44, 34.51 - 34.53	operations on nose and accessory sinuses	2,758	2,593
18.	27.51, 27.59	ectracapsular extraction of lens	2,279	1,572
19.	17.33	release of carpal tunnel	2,161	1,875
20.	94.21, 95.21, 95.22, 95.29	excision of lesion of muscle, tendon and fascia	2,070	1,984
21.	16.91, 16.92	injection of agent into spinal canal	1,739	1,711
22.	11.88, 11.89, 90.60 - 90.69	removal of internal and external fixation device	1,713	1,555
23.	92.85	arthroscopy of knee	1,624	1,672
24.	54.81	biopsy of esophagus	1,445	1,194
25.	72.91	needle biopsy of prostate	1,384	1,204
		TOTAL	113,584	102,571
		Percentage of total day care surgical load	70.3	70.5

In Table 4, the volume of day care surgery is compared with that currently being performed on an inpatient basis. For each of the twenty-five most common day care procedures, the table shows the corresponding volume of inpatient primary surgical procedures and the proportion of the total load which is done as a day care service. In 1986/87, the percentage done on a day care basis increased for twenty-three of the twenty-five procedures. Looking at all procedures shown in the table, the day care proportion amounted to 75.3%.

TABLE 4

THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES
AND CORRESPONDING INPATIENT SURGICAL PROCEDURES (PRIMARY ONLY)
PERFORMED IN ACUTE CARE HOSPITALS
1986/87

ICD-9 CODE	DAY CARE	INPATIENT	TOTAL	% DAY CARE 1986/87	% DAY CARE 1985/86
1. 01.33 - 01.35, 67.85 - 67.87	14,519	6,048	20,567	70.6	63.9
2. 79.00, 79.10, 79.21, 79.22, 79.23, 79.29, 79.30, 80.11, 80.12, 80.19, 81.09	10,853	2,636	13,489	80.5	77.3
3. 86.41, 86.42, 86.49, 87.00, 87.10, 87.21, 87.29	10,694	857	11,551	92.6	88.0
4. 35	9,011	1,232	10,243	88.0	85.3
5. 01.02 - 01.09, 01.11 - 01.16	7,676	3,836	11,512	66.7	66.2
6. 56.81, 56.82, 57.91 - 57.95	6,553	2,265	8,818	74.3	72.3
7. 78.21, 78.22, 78.31, 78.32, 78.39, 78.41, 78.42, 78.49, 78.53, 78.59	5,329	1,459	6,788	78.5	75.8
8. 32.01, 32.09, 32.10	4,576	399	4,975	92.0	91.7
9. 01.22	3,893	1,554	5,447	71.5	68.4
10. 98.11, 98.12	3,754	1,708	5,462	68.7	65.2
11. 97.11, 97.82	3,666	876	4,542	80.7	78.0
12. 66.83	3,577	1,420	4,997	71.6	68.0
13. 75.64	3,423	59	3,482	98.3	95.8
14. 92.32	3,287	1,319	4,606	71.4	63.7
15. 70.10, 70.50	2,803	649	3,452	81.2	76.2
16. 28.53 - 28.55	2,797	14	2,811	99.5	90.4

TABLE 4

THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES
AND CORRESPONDING INPATIENT SURGICAL PROCEDURES (PRIMARY ONLY)
PERFORMED IN ACUTE CARE HOSPITALS
1986/87

ICD-9 CODE	DAY CARE	INPATIENT	TOTAL	% DAY CARE 1986/87	% DAY CARE 1985/86
17. 33.21 - 33.23, 33.30, 33.40, 33.51, 33.52, 33.59, 33.61, 33.62, 33.71 - 33.77, 33.79, 33.91, 33.99, 34.00, 34.10, 34.21, 34.29, 34.31, 34.32, 34.41 - 34.44, 34.51 - 34.53	2,758	3,710	6,468	42.6	39.6
18. 27.51, 27.59	2,279	3,474	5,753	39.6	30.2
19. 17.33	2,161	433	2,594	83.3	80.3
20. 94.21, 95.21, 95.22, 95.29	2,070	343	2,413	85.8	83.4
21. 16.91, 16.92	1,739	512	2,251	77.3	78.0
22. 11.88, 11.89, 90.60 - 90.69	1,713	1,092	2,805	61.1	57.8
23. 92.85	1,624	476	2,100	77.3	74.7
24. 54.81	1,445	412	1,857	77.8	75.5
25. 72.91	1,384	470	1,854	74.6	68.5
	113,584	37,253	150,837	75.3	69.8

By analyzing the volume of day care surgery over time for those procedures shown in Table 3, it was possible to highlight those procedures among the twenty-five most common which are experiencing significant growth. These are shown in Table 5. A number of procedures were found which, though relatively small in total numbers of surgical day care procedures performed, appeared to have particular potential for overall growth, or for possible further transfer from inpatient to surgical day care. These procedures are identified on Table 6.

TABLE 5

SIGNIFICANT GROWTH VOLUMES AMONG THE TWENTY-FIVE MOST COMMON DAY CARE SURGICAL PROCEDURES
1983/84 - 1986/87

ICD-9 CODE	PROCEDURE	CASES 1983/84	1984/85	1985/86	1986/87	% INCREASE 83/84 - 86/87
27.51, 27.59	extracapsular extraction of lens	407	937	1,572	2,279	460.0
01.22	other nonoperative colonoscopy	1,633	1,922	3,233	3,893	138.4
72.91, 72.92	biopsy of prostate	663	985	1,290	1,433	116.1
56.81, 56.82, 57.91 - 57.95	biopsy of stomach and intestines	3,231	4,265	5,313	6,553	102.8
92.32	excision of semilunar cartilage of knee	1,686	2,099	2,621	3,287	95.0
16.91, 16.92	injection of agent into spinal canal	923	1,442	1,767	1,739	88.4
54.81	biopsy of esophagus	898	1,073	1,194	1,445	60.9
17.33	release of carpal tunnel	1,378	1,591	1,875	2,161	56.8
70.10, 70.50	urethral meatotomy, dilation of urethra	1,933	2,543	2,845	2,803	45.0

TABLE 6

ADDITIONAL DAY CARE SURGICAL PROCEDURES SHOWING SIGNIFICANT GROWTH
1983/84 - 1986/87

ICD-9 CODE	PROCEDURE	CASES 1983/84	1984/85	1985/86	1986/87	% INCREASE 83/84 - 86/87
27.69	other extraction of lens NEC	39	489	879	1,334	3320.5
27.72	insertion of intraocular lens prosthesis with cataract extraction, one-stage	181	486	864	1,069	490.6
65.01 - 65.04	repair of inguinofemoral hernia (unilateral) without graft or prosthesis	345	664	849	982	184.6
57.21, 57.29	local excision or destruction of lesion or tissue of large intestine	525	613	1,029	1,301	147.8
07.29	forcible correction of musculoskeletal deformity	419	432	577	896	113.8
45.81, 45.82	biopsy of bronchus	645	853	1,001	1,138	76.4

SECTION IV

DAY CARE SURGICAL VOLUMES

FOR REGIONAL HOSPITAL DISTRICTS

The number of day care surgical operations performed in acute care hospitals within each regional hospital district and the number of operations generated by the residents of each region is shown in Table 7. Comparative data is given for fiscal years 1984/85, 1985/86 and 1986/87.

Column 1 (Res) for each fiscal year relates the volume of day care surgical procedures performed for residents of each regional hospital district. This volume is expressed as the incidence per 1,000 district population.

Column 2 (Hosp) relates the volume, for each regional hospital district, of day care surgical procedures actually performed in that district's hospitals. Again, this is expressed as the volume per 1,000 district population.

For example, in 1986/87, the incidence per 1,000 district population of day care surgical procedures performed for residents of Alberni-Clayoquot Regional Hospital District was 58.7. However, the volume per 1,000 district population of day care surgical procedures actually performed in Alberni-Clayoquot Region hospitals was 39.0.

Similarly, the incidence of day care surgical procedures performed for residents of the Capital Regional Hospital District was 72.7. The volume of day care surgical procedures actually performed in the Capital Region hospitals was 77.6 per 1,000 district population.

As would be expected, those regional hospital districts experiencing a net inflow of day care patients contain hospitals which have large total surgery loads, provide specialized services, or act as natural regional referral centres.

TABLE 7 DAY CARE SURGICAL PROCEDURES (PRIMARY) PER 1,000 POPULATION BY PATIENT'S PLACE OF RESIDENCE AND BY REGIONAL HOSPITAL DISTRICT HOSPITAL USED, 1984/85 - 1986/87

REGIONAL HOSPITAL DISTRICT No.	Name	POPULATION ESTIMATE 1986/87	PROCEDURES PER 1,000 POPULATION 1984/85 Res	1984/85 Hosp	1985/86 Res	1985/86 Hosp	1986/87 Res	1986/87 Hosp
1	Alberni-Clayoquot	30,341	43.1	29.4	49.3	35.8	58.7	39.0
2	Bulkley-Nechako	37,470	31.8	17.7	35.3	19.7	38.4	22.0
3	Capital	265,385	30.2	31.7	51.2	53.9	72.7	77.6
4	Cariboo	60,473	44.7	30.9	49.5	36.2	51.7	39.1
5	Central Coast	3,167	19.4	4.8	24.0	4.1	29.0	3.8
6	Central Fraser Valley	136,892	48.5	34.6	54.2	38.6	57.8	41.7
7	Central Kootenay	49,110	40.4	24.5	40.1	22.8	46.3	26.7
8	Central Okanagan	89,730	50.3	57.0	53.6	59.1	56.6	61.3
9	Columbia-Shuswap	40,099	37.8	13.5	40.2	15.7	38.6	18.1
10	Comox-Strathcona	71,145	53.9	55.4	59.6	61.8	73.4	76.2
11	Cowichan Valley	52,565	55.0	44.9	61.9	52.8	74.7	63.0
12	Dewdney-Alouette	69,494	44.5	24.4	49.2	27.4	53.5	30.3
13	East Kootenay	53,089	29.5	29.7	30.9	31.9	36.7	37.4
14	Fraser-Cheam	57,965	49.5	39.7	54.8	44.5	57.4	45.8
15	Fraser-Fort George	89,337	44.0	49.9	44.2	49.6	44.3	49.4
16	Greater Vancouver	1,266,152	48.0	54.6	52.1	58.8	55.0	62.7
17	Kitimat-Stikine	39,483	29.2	25.2	30.0	25.1	36.7	30.9
18	Kootenay-Boundary	30,335	35.7	42.2	39.9	49.6	44.6	54.5
19	Mount Waddington	14,934	41.6	2.9	47.9	2.9	53.0	2.5
20	Nanaimo	82,480	54.2	60.2	54.2	57.2	62.8	62.5
21	North Okanagan	55,045	44.5	42.4	44.6	43.5	49.6	49.0
22	Okanagan-Similkameen	59,089	45.9	40.8	51.2	46.8	58.0	53.3
23	Peace River-Liard	57,278	22.4	18.8	23.3	20.2	27.6	24.8
24	Powell River	18,074	34.8	21.5	37.1	22.6	41.6	21.4
25	Skeena-Queen Charlotte	23,061	37.2	32.5	38.4	35.5	31.7	26.2
26	Squamish-Lillooet	19,743	43.1	6.1	39.3	5.3	44.1	5.4
27	Stikine	2,022	11.3	0.0	9.3	0.0	14.8	0.0
28	Sunshine Coast	16,758	43.1	23.1	44.5	22.4	49.5	24.9
29	Thompson-Nicola	98,493	64.8	75.0	67.9	78.8	65.4	72.2
	TOTAL	2,889,209	45.0	45.2	50.1	50.3	55.6	55.9
	Nonresidents		0.2		10.2		0.3	
	TOTAL		45.2	45.2	50.3	50.3	55.9	55.9

APPENDICES

APPENDIX A

CANADIAN CLASSIFICATION OF DIAGNOSTIC, THERAPEUTIC, AND SURGICAL PROCEDURES

Operation Group	Code
Certain Diagnostic and Therapeutic Procedures	01 - 13
Operations on the Nervous System	14 - 18
Operations on the Endocrine System	19 - 20
Operations on the Eyes	21 - 29
Operations on the Ears	30 - 32
Operations on the Nose, Mouth, and Pharynx	33 - 41
Operations on the Respiratory System	42 - 46
Operations on the Cardiovascular System	47 - 51
Operations on the Hemic and Lymphatic Systems	52 - 53
Operations on the Digestive System and Abdominal Region	54 - 66
Operations on the Urinary Tract	67 - 71
Operations on the Male Genital Organs	72 - 76
Operations on the Female Genital Organs	77 - 83
Obstetrical Procedures	84 - 87
Operations on the Musculoskeletal System	88 - 96
Operations on the Breast	97
Operations on Skin and Subcutaneous Tissue	98
Procedures Not Elsewhere Classified	99

APPENDIX B

British Columbia Acute Care Hospitals

101	Vancouver General
102	St. Paul's
103	St. Vincent's
104	The Salvation Army Grace
105	Children's
106	Mount Saint Joseph
107	A. Maxwell Evans Clinic
109	Royal Columbian
110	Saint Mary's, New Westminster
111	Powell River General
112	Lions Gate
113	St. Mary's, Sechelt
115	Langley Memorial
116	Surrey Memorial
121	Richmond General
123	UBC Health Sciences Centre
125	Shaughnessy
128	Squamish General
130	Burnaby
131	Peace Arch District
134	Delta
136	Eagle Ridge
201	Royal Jubilee
202	Victoria General
203	Cowichan District
206	Lady Minto Gulf Islands
217	Saanich Peninsula
301	Vernon Jubilee
302	Kelowna General
303	Penticton Regional
305	Princeton General
306	Enderby and District Memorial
307	Armstrong and Spallumcheen
308	Summerland General
309	South Okanagan General
401	Royal Inland
402	Queen Victoria
403	Nicola Valley General
404	Shuswap Lake General
405	St. Bartholomew's
406	Cariboo Memorial
408	Ashcroft and District General
409	Golden and District General
417	Lillooet District
419	Dr. Helmcken Memorial
501	Nanaimo Regional General
502	St. Joseph's General
504	Cumberland Health Care Facility*
505	Chemainus Diagnostic & Treatment Centre*
506	Ladysmith and District General
507	St. George's
508	Campbell River & District General
510	Port Hardy
511	Port McNeill and District
601	Chilliwack General
602	Mission Memorial
603	Matsqui-Sumas-Abbotsford General

* Diagnostic and Treatment Centre

British Columbia Acute Care Hospitals (continued)

604	Maple Ridge
606	Fraser Canyon
651	Kootenay Lake District
652	Slocan Community
653	Victorian
654	Creston Valley
655	Arrow Lakes
701	Fort St. John General
702	St. John
703	Prince George Regional
704	Dawson Creek and District
705	G. R. Baker Memorial
707	Burns Lake and District
708	100 Mile District General
713	McBride and District
714	Fort Nelson General
715	MacKenzie and District
716	Chetwynd General
717	Stuart Lake
752	Kimberley and District
753	Fernie District
754	Sparwood General
755	Windermere District
756	Cranbrook and District
801	Trail Regional
802	The Mater Misericordiae
803	Boundary
804	Castlegar and District
851	West Coast General
854	Tofino General
859	Port Alice
861	Tahsis
901	Wrinch Memorial
902	Prince Rupert Regional
903	Bulkley Valley District
904	R. W. Large Memorial
906	Bella Coola General
907	Queen Charlotte Islands General
909	Houston Health and Human Resources Centre*
910	Stewart General
912	Mills Memorial
916	Cassiar
917	Kitimat General

* Diagnostic and Treatment Centre